

2b1  
a spindle mounted on another one of the inner and outer races wherein said spindle is axially aligned relative to said bearing and said spindle and bearing are displaceable axially relative to said sleeve; and

wherein said sleeve is bonded to said housing with a metal-to-metal adhesive bonding material.

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Amend claim 6 to read as follows:

2b2  
6. A spindle assembly according to Claim 1 wherein said housing is provided with an opening having an enlarged section defining said at least one bearing seat, the outer race of said bearing is disposed in said at least one bearing seat, said sleeve is disposed between said outer race of said bearing and said at least one bearing seat and is bonded to said housing and said spindle is received within said opening and journaled in the inner race of said bearing.

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Amend claim 11 to read as follows:

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11. A method of fabricating a spindle assembly for a machine tool comprising:  
forming at least one bearing seat in a housing;  
mounting a spindle on one of an inner race and an outer race of a bearing;  
mounting a sleeve on the other of said races of said bearing so that said bearing is displaceable axially relative to said sleeve;  
applying an adhesive bonding material to at least one of a surface of said sleeve and a surface of said at least one bearing seat;  
mounting said spindle with said bearing and sleeve, on said housing so that said surface of said sleeve is disposed adjacent to said surface of said at least one bearing seat with said adhesive bonding material adjoining said surfaces; and

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allowing said bonding material to set to rigidly secure said sleeve to said housing, permitting said bearing to displace along an axial line of travel relative to said sleeve.

[Amend claim 12 to read as follows:]

12. A method according to Claim 11 including forming said at least one bearing seat slightly oversized relative to said sleeve.

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Amend claim 15 to read as follows:

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15. A method according to Claim 11 including:  
forming first and second bearing seats in said housing;  
mounting said spindle on one of an inner race and an outer race of a first bearing;  
mounting a first sleeve on another one of said inner and outer races of said first bearing so that said first bearing is axially displaceable relative to said first sleeve;

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applying an adhesive bonding material to at least one surface of said first sleeve and a surface of said first bearing seat;

mounting said spindle with said first bearing and first sleeve, on said housing so that said first sleeve is disposed adjacent said first bearing seat surface with said adhesive bonding material therebetween;

mounting a second sleeve on one of an inner and outer race of a second bearing so that said second bearing is axially displaceable relative to said second sleeve;

applying an adhesive bonding material on at least one of a surface of said second sleeve and a surface of said second bearing seat;

mounting another one of said inner and outer races of said second bearing on said spindle and said second bearing with said second sleeve in said second bearing seat with said adhesive bonding material between said second sleeve and said second bearing seat; and

allowing said adhesive bonding materials to set to rigidly secure said sleeves to said housing, permitting said bearings to displace along an axial line of travel relative to said spindle, relative to said sleeve.

[Amend claim 16 to read as follows:]

16. A method of fabricating a spindle assembly for a machine tool comprising:

providing a housing having an opening therethrough with spaced, first and second enlarged sections providing outwardly facing annular seating surfaces and annular side walls;

mounting a first annular sleeve on an outer race of a first bearing so that said first bearing is axially displaceable relative to said first sleeve;

mounting said first bearing with said first sleeve disposed thereon onto a spindle having an annular seating surface so that an inner race of said first bearing seats on said annular seating surface of said spindle;

applying an adhesive bonding material to at least one of a surface of said first sleeve and the annular side wall of said first enlarged section of said housing opening;

inserting said spindle with said first bearing and first sleeve disposed thereon into said housing opening so that said first bearing is received in said first enlarged section, the outer race of said first bearing is seated on said annular surface of said first enlarged section and said annular sleeve is disposed adjacent the annular side wall of said first enlarged section with said adhesive bonding material disposed therebetween;

mounting a second annular sleeve on an outer race of a second bearing so that said second bearing is axially displaceable relative to said second sleeve;

applying an adhesive bonding material to at least one of a surface of said second sleeve and the annular side wall of said second enlarged section of said housing opening;